

# Polyethylene glycol

## GENERAL PROPERTY

Composition	Av. Molecular weight	Appearance	OHV	Melting point (jÉ)
PEG 200	190 ~ 210	Oily liquid	534 ~ 590	
PEG 300	285 ~ 315	Oily liquid	356 ~ 392	
PEG 400	380 ~ 420	Oily liquid	268 ~ 294	
PEG 600	570 ~ 630	Oily liquid	178 ~ 196	17 ~ 22
PEG 1000	950 ~ 1050	Solid	108 ~ 117	35 ~ 40
PEG 4000	3800 ~ 4400	Solid	22.5 ~ 29.5	53 ~ 58
PEG 6000	5600 ~ 6400	Solid	17.5 ~ 20	55 ~ 60
PEG 8000	7500 ~ 8500	Solid	13 ~ 15	58 ~ 65

## CHARACTERISTIC

### Highly compatible to various kinds of organic compounds.

PEG is compatible with most organic solvents, and has excellent water-solubility.

### High boiling point.

Effective as a non-volatile solvent because of its high boiling point.

### Easy control of the degree of condensation.

As the degree of condensation is properly governed, PEG has a broad spectrum of products ranging from rigid solids to oily liquids.

### Controllable hygroscopic property.

Every PEG type surfactant has excellent hygroscopic property, and this is controllable by adjusting the degree of condensation.

As the degree of condensation increases, the hygroscopic property is degreased.

### Less toxicity

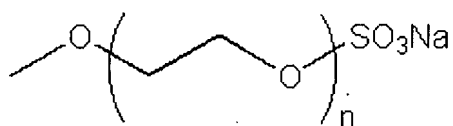
PEG is characterized by less toxicity and less skin irritation. There is no damage in case of contact with skin or lips.

## APPLICATION

### Rubber industries

As PEG has good water-solubility even in its solid state, it is used as a releasing agent for foam rubber, latex rubber, etc.

PEG is also used as an airpack releasing agent, inner releasing agent, and lubricant in the



## Disodium cocoamphodiacetate.

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This is an example of a proteric, which are mild non-ionic surfactants often used in place of the alkanolamides. It is often used in baby products as well as other frequent use cleansing products where low irritation is important. When used in combination with other surfactants they build viscosity, boost and stabilize foam, and have skin and hair conditioning properties.

Disodium cocoamphodiacetate is made by Protameen under the trade name Proteric CDX-38.

## Dimethicone.

Other names used to describe dimethicone are silicone rubber, latex, dimethylpoly-siloxane, simethicone, dimethyl silicone, and dermafilm.

Dimethicone takes the form of a clear, viscous liquid. It is effective at very low concentrations and is inert, so it doesn't interfere with any actual processes that are occurring. It is also non-toxic to human life.

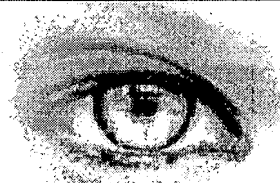
Dimethicone is used in antifatulent preparations, as antifoam in pharmaceutical processing, and as a defoaming agent in food processing

Its molecular weight is 74.14.

CAS: 9016-00-6

Molecular formula:  $C_2H_6OSi$

## Cetyl alcohol.

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## Moisturization/Humectancy >>

### Hispagel® 200

Hispagel® 200 is a hydrated polymeric clathrate containing vegetally-derived glycerin that is readily soluble in water, forming permeable films on the skin with excellent moisture retention and lubricating properties. Excellent thickening and stabilizing properties for use in all types of personal care products.

**INCI Name:** Glycerin, Glyceryl Polyacrylate.

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## Myristyl Myristate

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## Myristyl Myristate

Product: Myristyl Myristate

CAS: 3234-85-3

Synonym: Tetradecanoic Acid, Tetradecyl Ester

Formula:  $\text{CH}_3(\text{CH}_2)_{12}\text{COO}(\text{CH}_2)_{13}\text{CH}_3$

Class: Plasticizers - Esters - Surfactants

### SPECIFICATIONS

Appearance	Waxy solid
Color	White to Pale Yellow
Odor	Mild Characteristic
Acid Value, mg KOH/g	3.0 max
Saponification Value mg KOH/gram	120 - 132
Iodine Value	Nil
Melting Point	36 - 40°C

### Notes

Solubility: Soluble in high hydrophobic solvents such as esters, mineral oil, mineral spirits, and aromatic hydrocarbons. Dispersible in ethers and glycerol.

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2 William St. Suite 303 White Plains, NY 10601

***Material Safety Data Sheet***  
**EVENING PRIMROSE CP - Product No: 196**  
*oenothera biennis*  
 FIXED OIL

Liberty Natural Home		Terms & Definitions	
Info	Identification		
FEMA No			
CAS No.	90028-66-3		
Chemical Name			
Health	Slightly hazardous.		
Flammability	Will ignite if overheated.		
Reactivity	Unstable if heated.		
Info	Fire, Explosion & Reactivity		
Flash Point	>175 C		
Extinguishing Media	FOG-No   CO2-Yes   FOAM-No   DRY-Yes		
Dot Classification	HAZARDOUS		
Stability	STABLE		
NFPA Classification	N/A		
Fire Fighting	STOP SPILL, START FIRE FIGHTING EFFORTS IMMEDIATELY. LIMIT SPREAD OF OIL. TREAT AS AN OIL (EDIBLE FAT) FIRE.		
Unusual Fire Hazard	IGNITON TEMPERATURE APPROXIMATELY 433 C/ 833 F IF PRODUCT BEGINS TO SMOKE, REDUCE HEAT		
Hazardous Combustable Decomposition Products	Combustion will produce carbon dioxide and probably carbon monoxide		
Info	Physical Data		
Color & Odor	Clear light honey in color and a characteristic odor.		
Boiling Point	N/A		
Melting Point	LIQUID ABOVE 0 C		
Vapor Pressure	<0.05 MM @ 300 C		
Vapor Density	N/A		
Water Solubility	INSOLUBLE		
Info	Protection Data		

Respiratory	None should be needed
Ventilation	General recommended at least 10 air changes per hour for good room ventilation
Skin	Safety gloves should be worn
Eye	Safety glasses should be worn in any type of industrial operation
Other	None
Info	Occupational Exposure Limit
Threshold Limit	NOT ESTABLISHED
OSHA Permissible Limit	NOT ESTABLISHED
Carcinogen	NOT A CARCINOGEN OR POTENTIAL CARCINOGEN
NTP Limit	NO
IARC Limit	NO
OSHA Limit	NO
Carcinogen Notes	None
Info	Health Hazards
Material Type	NATURAL VEGETABLE OIL
Health Hazard	LIQUID MAY IRRITATE EYES-LIQUID MAY IRRITATE SKIN
Primary Entry Routes	INHALATION-SKIN
Health Hazard Notes	NO specific health or safety hazard known
Info	Emergency First Aid
Inhalation	NONE KNOWN
Eye Contact	ANY MATERIAL GOTTEN INTO EYES MAY CAUSE IRRITATION, FLUSH-WITH WATER
Skin Contact	RUN WATER OVER AREA NEEDED
Ingestion	DRINK MILK AND/OR WATER
First Aid Notes	Always wear protective clothing for your face and body
Info	Spill, Leakage & Disposal Procedures
Spill Procedures	COLLECT AND CONTAIN FOR SALVAGE OR DISPOSAL
Waste Disposal	OBSERVE ALL FEDERAL, STATE AND LOCAL LAWS CONCERNING HEALTH AND ENVIRONMENT
Info	Handling & Shipping Procedures
	EVENING PRIMROSE OIL SHOULD NOT BE STORED IN PLASTIC. IT WILL

Handling & Shipping Procedures	CAUSE THE CORROSION OF THE PLASTIC CONTAINER (LITERALLY MELTING THE INSIDE OF THE PLASTIC). ONCE RECEIVED THE OIL SHOULD BE PUT INTO THE 4 LITER GLASS AMBER JUGS AND LABELED WITH THE NAME AND BATCH NUMBER (THIS IS CLEARLY PRINTED ON THE STORAGE CONTAINER.
Info	SARA 313 Chemical Breakdown
SARA Chemical Name	NONE
SARA Concentration	NONE

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DOW CORNING 200:  
 Viscosity (Centistokes): 350  
 Specific Gravity @ 25C: 0.970  
 Flash Point, F/C (Closed Cup): 600/315  
 Melting Point, F/C: (-40/-40)  
 Boiling Point, F/C: >400/200  
 Refractive Index @ 25C: 1.403  
 Appearance: Clear

DOW CORNING 200:  
 Viscosity (Centistokes): 500  
 Specific Gravity @ 25C: 0.971  
 Flash Point F/C (Closed Cup): 600/315  
 Melting Point, F/C: <-40/-40  
 Boiling Point, F/C: >400/200  
 Refractive Index @ 25C: 1.403  
 Appearance: Clear

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Dow Corning Corp. 239

DOW CORNING CORP.: Silicones(Continued):

Dimethicone(Continued):

DOW CORNING 200:  
 Viscosity (Centistokes): 1000  
 Specific Gravity @ 25C: 0.971  
 Flash Point, F/C (Closed Cup): 610/321  
 Melting Point, F/C: <-40/-40  
 Boiling Point, F/C: >400/200  
 Refractive Index @ 25C: 1.403  
 Appearance: Clear

DOW CORNING 200:  
 Viscosity (Centistokes): 12500  
 Specific Gravity @ 25C: 0.975  
 Flash Point, F/C: <-40/-40  
 Boiling Point, F/C: >400/200  
 Refractive Index @ 25C: 1.403  
 Appearance: Clear

Dimethicone Copolyol:

DOW CORNING 190:  
 Viscosity (Centistokes): 1500

*Dow Corning 190:  
 dimethicone copolyol.*

*No MP - liquid*



Specific Gravity @ 25C: 1.035  
 Flash Point, F/C (Closed Cup): 130/54  
 Melting Point, F/C: NA  
 Boiling Point, F/C: >400/200  
 Refractive Index @ 25C: 1.448  
 Appearance: Hazy

## DOW CORNING 193:

Viscosity (Centistokes): 465  
 Specific Gravity @ 25C: 1.070  
 Flash Point, F/C (Closed Cup): 198/92  
 Melting Point, F/C: NA  
 Boiling Point, F/C: >400/200  
 Refractive Index @ 25C: 1.454  
 Appearance: Hazy

## DOW CORNING 42-5220:

Viscosity (Centistokes): 1000  
 Specific Gravity @ 25C: 1.030  
 Flash Point, F/C (Closed Cup): 140/60  
 Melting Point, F/C: NA  
 Boiling Point, F/C: >400/200  
 Refractive Index @ 25C: 1.457  
 Appearance: Hazy

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## 240 Cosmetics Additives

DOW CORNING CORP.: Silicones Continued):

Cyclomethicone (and) Dimethi one Copolyol

## DOW CORNING 32232:

Viscosity (Centistokes): 500  
 Specific Gravity @ 25C: 0.963  
 Flash Point, F/C (Closed Cup): 140/160  
 Melting Point, F/C: 50/110  
 Boiling Point, F/C: 351 1178  
 Refractive Index @ 25C: 1.398  
 Appearance: Hazy

Phenyl Trimethicone:

## DOW CORNING 556:

Viscosity (Centistokes): 22.5  
 Specific Gravity @ 25C: 0.980  
 Flash Point, F/C (Closed Cup): 250/121  
 Melting Point, F/C: (-40/-40)  
 Boiling Point, F/C: >400/200  
 Refractive Index @ 25C: 1.460